



Auxiliary  
contactor  
BG00

Product designation

Product type designation

### Contact characteristics

|                                           |     |     |
|-------------------------------------------|-----|-----|
| Number of poles                           | Nr. | 4   |
| Rated insulation voltage $U_i$ IEC/EN     | V   | 690 |
| Rated impulse withstand voltage $U_{imp}$ | kV  | 6   |

Operational frequency

|     |    |     |
|-----|----|-----|
| min | Hz | 25  |
| max | Hz | 400 |

|                                                    |   |    |
|----------------------------------------------------|---|----|
| IEC Conventional free air thermal current $I_{th}$ | A | 10 |
|----------------------------------------------------|---|----|

Protection fuse

|          |   |    |
|----------|---|----|
| gG (IEC) | A | 16 |
|----------|---|----|

Tightening torque for terminals

|     |      |     |
|-----|------|-----|
| min | Nm   | 0.8 |
| max | Nm   | 1   |
| min | lbin | 9   |
| max | lbin | 9   |

Tightening torque for coil terminal

|     |      |     |
|-----|------|-----|
| min | Nm   | 0.8 |
| max | Nm   | 1   |
| min | lbin | 9   |
| max | lbin | 9   |

|                                                |     |   |
|------------------------------------------------|-----|---|
| Max number of wires simultaneously connectable | Nr. | 2 |
|------------------------------------------------|-----|---|

Conductor section

AWG/Kcmil

|     |    |
|-----|----|
| max | 12 |
|-----|----|

Flexible w/o lug conductor section

|     |                 |      |
|-----|-----------------|------|
| min | mm <sup>2</sup> | 0.75 |
| max | mm <sup>2</sup> | 2.5  |

Flexible c/w lug conductor section

|     |                 |     |
|-----|-----------------|-----|
| min | mm <sup>2</sup> | 1.5 |
| max | mm <sup>2</sup> | 2.5 |

Flexible with insulated spade lug conductor section

|     |                 |     |
|-----|-----------------|-----|
| min | mm <sup>2</sup> | 1.5 |
| max | mm <sup>2</sup> | 2.5 |

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| Power terminal protection according to IEC/EN 60529 | IP20 when wired |
|-----------------------------------------------------|-----------------|

### Mechanical features

Operating position

|                     |                       |
|---------------------|-----------------------|
| normal<br>allowable | Vertical plan<br>±30° |
|---------------------|-----------------------|

|        |                          |
|--------|--------------------------|
| Fixing | Screw / DIN rail<br>35mm |
|--------|--------------------------|

|        |   |     |
|--------|---|-----|
| Weight | g | 204 |
|--------|---|-----|

Conductor section

AWG/kcmil conductor section

|                                                    |                 |                 |          |
|----------------------------------------------------|-----------------|-----------------|----------|
|                                                    | max             | 12              |          |
| <b>Auxiliary contact characteristics</b>           |                 |                 |          |
| Thermal current I <sub>th</sub>                    | A               | 10              |          |
| IEC/EN 60947-5-1 designation                       |                 | A600 - Q600     |          |
| Operating current AC15                             | 230V            | A               | 3        |
|                                                    | 400V            | A               | 1.9      |
|                                                    | 500V            | A               | 1.4      |
| Operating current DC12                             | 110V            | A               | 2.9      |
| Operating current DC13                             | 24V             | A               | 2.9      |
|                                                    | 48V             | A               | 1.4      |
|                                                    | 60V             | A               | 1.2      |
|                                                    | 110V            | A               | 0.6      |
|                                                    | 125V            | A               | 0.55     |
|                                                    | 220V            | A               | 0.3      |
|                                                    | 600V            | A               | 0.1      |
| <b>Operations</b>                                  |                 |                 |          |
| Mechanical life                                    | cycles          | 20000000        |          |
| <b>Safety related data</b>                         |                 |                 |          |
| Performance level B10d according to EN/ISO 13489-1 | mechanical load | cycles          | 20000000 |
| Mirror contacts according to IEC/EN 60947-4-1      |                 | YES             |          |
| EMC compatibility                                  |                 | yes             |          |
| <b>DC coil operating</b>                           |                 |                 |          |
| DC rated control voltage                           | V               | 48              |          |
| DC operating voltage                               |                 |                 |          |
| pick-up                                            | min             | %U <sub>s</sub> | 75       |
|                                                    | max             | %U <sub>s</sub> | 115      |
| drop-out                                           | min             | %U <sub>s</sub> | 10       |
|                                                    | max             | %U <sub>s</sub> | 20       |
| Average coil consumption ≤20°C                     | in-rush         | W               | 2.3      |
|                                                    | holding         | W               | 2.3      |
| <b>Max cycles frequency</b>                        |                 |                 |          |
| Mechanical operation                               | cycles/h        | 3600            |          |
| <b>Operating times</b>                             |                 |                 |          |
| Average time for U <sub>s</sub> control            |                 |                 |          |
| in AC                                              |                 |                 |          |
| Closing NO                                         | min             | ms              | 12       |
|                                                    | max             | ms              | 21       |
| Opening NO                                         | min             | ms              | 9        |
|                                                    | max             | ms              | 18       |
| Closing NC                                         | min             | ms              | 17       |
|                                                    | max             | ms              | 26       |
| Opening NC                                         |                 |                 |          |

|       |            |     |    |    |
|-------|------------|-----|----|----|
| in DC |            | min | ms | 7  |
|       |            | max | ms | 17 |
|       | Closing NO | min | ms | 18 |
|       |            | max | ms | 25 |
|       | Opening NO | min | ms | 2  |
|       |            | max | ms | 3  |
|       | Closing NC | min | ms | 3  |
|       |            | max | ms | 5  |
|       | Opening NC | min | ms | 11 |
|       |            | max | ms | 17 |

#### UL technical data

##### General USE

##### Contactor

|                                                      |            |   |             |
|------------------------------------------------------|------------|---|-------------|
|                                                      | AC current | A | 160         |
| Contact rating of auxiliary contacts according to UL |            |   | A600 - Q600 |

#### Ambient conditions

##### Temperature

##### Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -50 |
| max | °C | +70 |

##### Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -60 |
| max | °C | +80 |

##### Max altitude

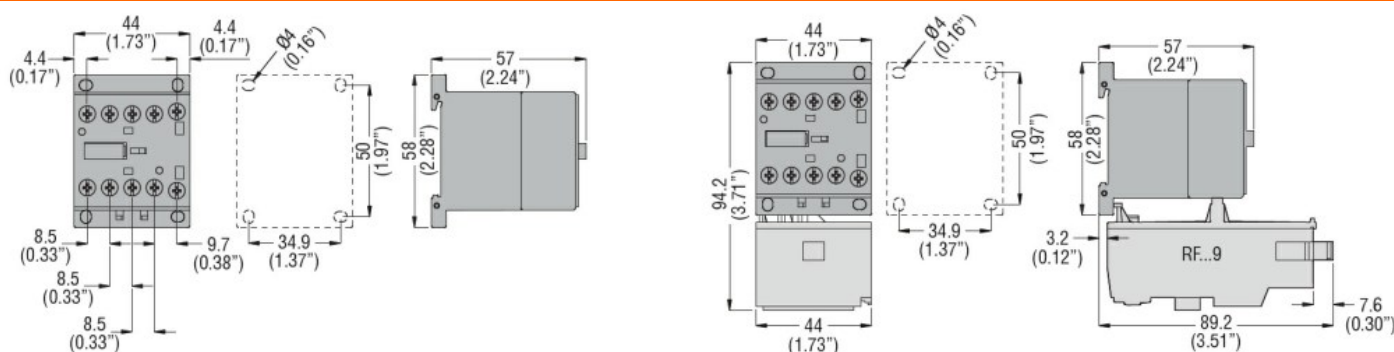
m 3000

#### Resistance & Protection

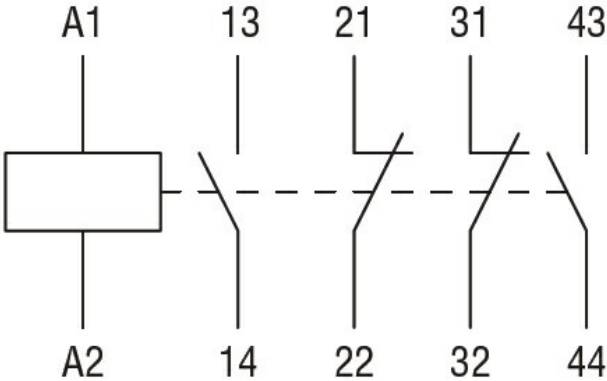
##### Pollution degree

3

#### Dimensions



#### Wiring diagrams



**Certifications and compliance**

|            |                        |
|------------|------------------------|
| Compliance | CSA C22.2 n° 60947-1   |
|            | CSA C22.2 n° 60947-5-1 |
|            | IEC/EN 60947-1         |
|            | IEC/EN 60947-5-1       |
|            | UL 60947-1             |
|            | UL 60947-5-1           |

|              |       |
|--------------|-------|
| Certificates | cULus |
|              | EAC   |

**ETIM classification**

|          |                               |
|----------|-------------------------------|
| ETIM 8.0 | EC000196 -<br>Contactor relay |
|----------|-------------------------------|